

T 9502 US

Claims

1. An air diffuser, in particular for vehicle air-conditioning, said air diffuser comprising a housing, a plurality of vanes of which each is pivotally mounted, and an adjustment element by means of which an orientation of said vanes can be adjusted, a first coupling element being provided with which each vane is coupled so as to be rotatable about a first swiveling axle, said first coupling element being supported on said housing so as to slide in a sliding guide, and a second swiveling axle being provided on each vane.

2. The diffuser according to Claim 1, wherein a second coupling element is provided that is movable relative to said housing, each of said vanes being coupled to said second coupling element in such a way that it can rotate about its associated second swiveling axle.

3. The diffuser according to Claim 1, wherein said adjustment element is connected to said first coupling element in such a way that, by activating said adjustment element, said orientation of said vanes can be adjusted.

4. The diffuser according to Claim 2, wherein said adjustment element is connected to said first and second coupling elements in such a way that, by activating said adjustment element, a position of said coupling elements relative to each other and thus said orientation of said vanes can be adjusted.

5. The diffuser according to Claim 3, wherein said adjustment element is an adjustment wheel that is rotatably supported in said housing and that interacts with said coupling element by means of a slot-and-pin guide.

6. The diffuser according to Claim 4, wherein said adjustment element is an adjustment wheel that is rotatably supported in said housing and that interacts with said coupling elements by means of two slot-and-pin guides.

7. The diffuser according to Claim 5, wherein said slot-and-pin guide of said adjustment wheel is constituted by a slot formed in said adjustment wheel and a pin provided on said coupling element, said pin being in engagement in said slot.

5 8. The diffuser according to Claim 6, wherein said slot-and-pin guides of said adjustment wheel are constituted by two slots formed in said adjustment wheel and one pin provided on each of said coupling elements, said pins being in engagement in said slots, respectively.

9. The diffuser according to Claim 2, wherein in said housing a second sliding guide is provided in which said second coupling element is supported.

10 10. The diffuser according to Claim 9, wherein said second sliding guide is aligned approximately perpendicular to said first sliding guide.

11. The diffuser according to Claim 9, wherein said vanes have front and rear areas at which they are connected with said coupling elements.

15 12. The diffuser according to Claim 9, wherein said second swiveling axle is supported in a sliding guide in said housing.

13. The diffuser according to Claim 12, wherein said sliding guide of said second swiveling axle is aligned approximately perpendicular to said sliding guide of said first coupling element.

20 14. The diffuser according to Claim 14, wherein said adjustment element is an adjustment knob mounted on one of said vanes.